

## **FACILITY PERMIT TO OPERATE EXXONMOBIL OIL CORP**

### **PERMIT TO OPERATE**

**Permit No. R-F98712  
A/N 484335**

#### **Equipment Description:**

VAPOR DESTRUCTION SYSTEM SERVING TRUCK LOADING BAYS NO 1,2,3,4, AND 5 CONSISTING OF:

1. AFTERBURNER, JOHN ZINK, MODEL ZTOF, WITH A 10'-0" DIA. X 45'-0" H. STACK.
2. TWO COMBUSTION AIR BLOWERS, 15-H.P. AND 3-H.P.
3. ONE KNOCK OUT DRUM, V-7, JOHN ZINK, 3'-0" DIA. X 6'-0" H.
4. TWO DETONATION ARRESTORS, EACH WESTECH, MODEL WFA59-008, 0'-8" DIA.
5. ONE KNOCK OUT DRUM, 5'-4" DIA. X 18'-0"L.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW

[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES

[RULE 204]

3. THE OPERATOR SHALL ONLY OPERATE THIS DEVICE WHEN THE PRIMARY VAPOR RECOVERY SYSTEM, THE JOHN ZINK REGENERATIVE CARBON ADSORBER (MODEL AA-1218-9-8), IS NOT IN OPERATION.

[RULE 1303(a)(1)-BACT, RULE 462]

4. THE OPERATOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

WHENEVER THE LOADING THROUGHPUT FOR THIS BULK LOADING FACILITY APPROACHES 2,500,000 GALLONS PER DAY, THE OPERATOR SHALL DIVERT THE VAPORS FROM THE LOADING OPERATION FROM THE CARBON ADSORPTION SYSTEM TO THE AFTERBURNER (OR VICE VERSA.)

[RULE 1303(a)(1)-BACT, RULE 462]

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5. THE FOLLOWING BACT REQUIREMENTS SHALL APPLY TO VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH THE DEVICES IN THIS EQUIPMENT:

ALL COMPONENTS IN VOC SERVICE, EXCEPT VALVES AND FLANGES, SHALL BE INSPECTED QUARTERLY USING EPA REFERENCE METHOD 21. ALL VALVES AND FLANGES IN VOC SERVICE SHALL BE INSPECTED MONTHLY USING EPA METHOD 21

IF 98.0 PERCENT OR GREATER OF THE NEW NON-BELLOW SEALED VALVE AND NEW FLANGE POPULATION INSPECTED IS FOUND TO LEAK GASEOUS OR LIQUID VOLATILE ORGANIC COMPOUNDS AT A RATE LESS THAN 500 PPMV FOR TWO CONSECUTIVE MONTHS, THEN THE OPERATOR SHALL REVERT TO A QUARTERLY INSPECTION PROGRAM WITH THE APPROVAL OF THE DISTRICT

ALL FUGITIVE COMPONENTS IN VOC SERVICE, WITH A LEAK GREATER THAN 500 PPMV MEASURED AS METHANE ABOVE BACKGROUND USING EPA REFERENCE METHOD 21, SHALL BE REPAIRED WITHIN 14 DAYS OF DETECTION. COMPONENTS SHALL BE DEFINED AS ANY VALVE, FITTING, PUMP, COMPRESSOR, PRESSURE RELIEF VALVE, DIAPHRAGM, HATCH, SIGHT-GLASS, AND METER

THE RECORDS OF THE MONTHLY INSPECTION (AND QUARTERLY WHERE APPLICABLE), SUBSEQUENT REPAIRS AND RE-INSPECTIONS, IF ANY, SHALL BE MAINTAINED FOR TWO YEARS ( FIVE YEARS FOR A TITLE V FACILITY) IN A FORMAT APPROVED BY THE DISTRICT, AND SHALL BE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST

[RULE 1303(a)(1)-BACT]

6. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY THREE YEARS.
- B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.
- C. THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER THOUSAND GALLONS GASOLINE LOADED.

[RULE 462]

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#### **Periodic Monitoring:**

7. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE TEMPERATURE BEING MONITORED, AS INDICATED BELOW, IS NOT LESS THAN 1000 DEG F.
  - A. TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL INSTALL AND MAINTAIN A(N) TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE IN THE COMBUSTION ZONE.
  - B. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 1 PERCENT OF THE ACTUAL VALUE OR PLUS OR MINUS 2.2 DEGREES CELSIUS. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS.
  - C. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED.
  - D. THE OPERATOR SHALL ENSURE THAT ALL RECORDING DEVICES ARE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
  - E. THE OPERATOR SHALL MAINTAIN A DIGITAL READOUT OF THE TEMPERATURE OF THE THERMAL OXIDIZER EXHAUST GAS TEMPERATURE IN A LOCATION ACCESSIBLE TO DISTRICT PERSONNEL.
  - F. THE OPERATOR SHALL ENSURE THAT THE CMS IS PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES AND THAT IT MEETS ANY APPLICABLE REQUIREMENTS OF 40 CFR 63.427.
  - G. THE OPERATOR SHALL NOTIFY THE EXECUTIVE OFFICER, WITHIN 24 HOURS, IN THE EVENT OF A CONTINUOUS MONITORING SYSTEM (CMS) OR RECORDER FAILURE OR SHUTDOWN FOR REPAIR, WHICH EXCEEDS ONE HOUR. THE NOTIFICATION SHALL INCLUDE THE CAUSE AND TIME OF THE FAILURE, THE TIME THE CMS AND RECORDER RETURNED TO OPERATION, MAINTENANCE OR CORRECTIVE WORK PERFORMED AND ACTIONS TAKEN TO PREVENT SUCH FAILURES IN THE FUTURE. THE CMS AND RECORDER SHALL BE RESTORED TO NORMAL OPERATION WITHIN 96 HOURS OF THE FAILURE.
  - H. THE OPERATOR SHALL MAINTAIN RECORDS IN A MANNER APPROVED BY THE DISTRICT, TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION.

[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)-PERIODIC MONITORING]

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8. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE FLOW BEING MONITORED, AS INDICATED BELOW, DOES NOT EXCEED 1600 CFM.
- A. TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL MAINTAIN A SYSTEM (DANIELS LOAD OR EQUIVALENT) TO MONITOR TEMPERATURE AND GALLONS LOADED IN BAYS 1-5 AND SEND THROUGHPUT DATA TO THE TERMINAL MONITORING SYSTEM (TMS).
  - B. THE OPERATOR SHALL EVALUATE FLOWRATE, USING A DISTRICT-APPROVED VRNCA VDU FLOW CALCULATION MODEL, DURING EQUIPMENT OPERATION. THE RESULTANT FLOWRATE, BASED ON LOADING ACTIVITY, SHALL BE REPORTED IN SCFM.
  - C. THE OPERATOR SHALL ENSURE THAT THE TMS LOADING AND CAPACITY LIMITATIONS (600 GPM PER ARM AND TRUE MAXIMUM OF 10,200 GPM), OPERATIONAL VDU PROCEDURES, STAFF TRAINING, AND QUARTELY METER PROVING PROCESS ARE MAINTAINED IN ACCORDANCE WITH THE INFORMATION SUBMITTED UNDER THIS RE-ISSUED PERMIT.
  - D. THE OPERATOR SHALL MAINTAIN RECORDS IN A MANNER APPROVED BY THE DISTRICT, TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION.

[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)-PERIODIC MONITORING]

#### **Emissions And Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:

VOC:	RULE 462	0.08 LBS/1000 GAL ORGANIC LIQUID LOADED
VOC:	40CFR 60 SUBPART XX	35 MG/L ORGANIC LIQUID LOADED
CO:	RULE 407	2000 PPMv, 15 MINUTE AVERAGE
PM:	RULE 404	SEE APPENDIX B FOR EMISSION LIMITS
PM:	RULE 409	0.1 GRAINS/SCF